



SKIOLD FEED MILLING PLANT



SKIOLD MAKES THE DIFFERENCE!

*Ridleys Agri products 30tph
Pakenham Victoria*



SKIOLD & VMS Feed Milling Plants in Australia

Your Supplier of Complete Solutions for
Feed Production




**SKIOLD
& VMS**



CEFN Feed SKIOLD 10tph pelleting complete plant Strathine QLD



Pentagon Feeds SKIOLD 10tph pelleting complete plant Cohuna VIC

SKIOLD Feed Milling

The Feed Milling Equipment Specialists

Dosing / weighing

SKIOLD offers a complete program of equipment for dosing and weighing of raw materials and other components. The program includes among other things weighing bins, micro proportioning plant, mineral hoppers, etc., with capacities of up to 2 tonnes per batch.

Milling

Traditional hammer mills with or without a built-in fan and capacities from 300 to 5000 kg/h. Many accessories incl. reinforced wearing parts in PROF-LINE quality are available as options.

The SKIOLD disc mill is available in three sizes, SK2500, SK5000 and SK10T with capacities up to 12000 kg/h. Motor sizes from 7.5 to 75 kW.

The disc mill has adjustable milling degree, has a low energy consumption, minimal dust emission and an extremely low noise level.

Mixing

The UNI-MIX inclined mixer (available in three sizes of 500, 1000 and 1500 kg) is a reliable, gentle feed mixer with a high mixing accuracy due to the auger with large diameter and low number of revolutions.

Where high capacity and mixing accuracy are required we offer the horizontal ribbon or paddle mixer that can be equipped with pre-bin and post-bin.

The horizontal mixer is tested to a mixing accuracy of 1:100,000, which is sufficient for commercial feed production.

Pelleting

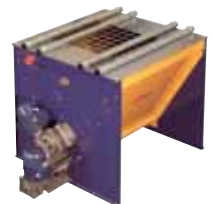
If pelleted feed is required, SKIOLD can supply customized pelleting plants as an integrated part of the feed factory. We have great experience in supplying and installing pelleting plants throughout the world in sizes ranging from 2 to 25 t/h.

Complete transport programme

SKIOLD offers a complete program of equipment for mechanical transportation, including flex augers, tubular augers, trough augers, bucket elevators, and chain conveyors.

We offer a wide range of accessories for all types, and great reliability of operation.

SKIOLD's wide range of industrial conveying equipment is manufactured in heavy-duty galvanized material, ensuring lasting quality and great reliability of operation. All types are supplied with gearmotor drive, and a wide selection of accessories and safety systems are available as options.



*Famous Disc mill
400 plus running
in Australia*





Big River Feeds SKIOLD 15tph pelleting complete plant Murray Bridge SA



DDFE SKIOLD 5tph mash complete plant Pittsworth QLD

SKIOLD VMS

Specialize in Design Sales Installation and Service

SKIOLD & Vacuum Milling Solutions

SKIOLD VMS designs and supplies complete feed mills in both tailor made and standard design with capacities from 1tph to 20tph and also bigger on request. We offer the whole package of equipment, accessories and control systems for the complete feed mill solution including installation accross Australia, New Zealand, PNG the Pacific Islands. The SKIOLD VMS team are dedicated to offering the complete solution for SKIOLD feed mill equipment sales, design, installation, service and technical support!

- Dosing/weighing/micro-dosing
- Milling
- Mixing
- Pelleting
- Grain cleaners
- Hoppers
- Liquid tanks and pumps
- Silos
- Conveying equipment
- Ducting, valves etc.



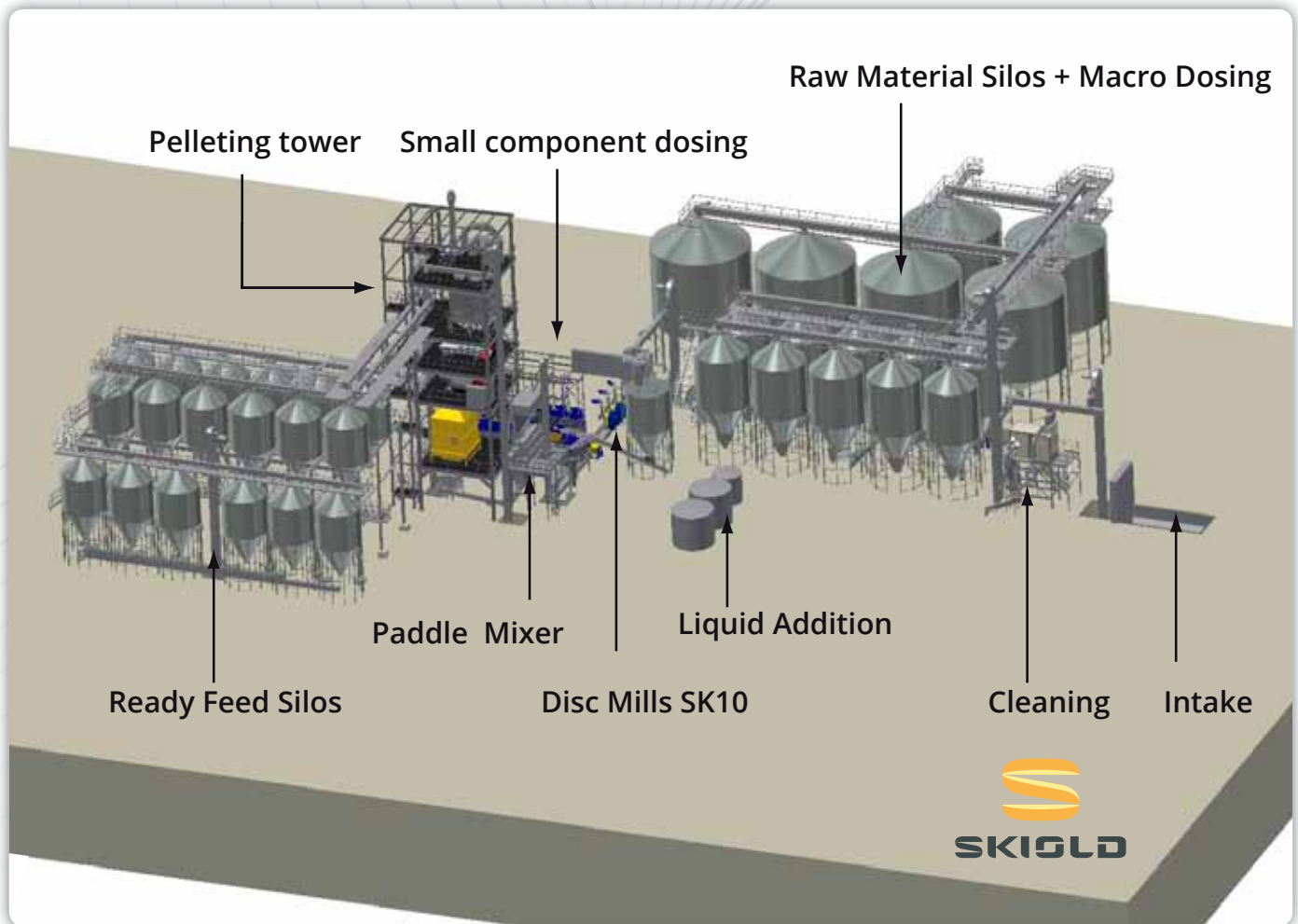
Skiold & VMS Management Team



SKIOLD & VMS have the right tools to make your installation



SKIOLD & VMS specialize in installation with trained technicians, installers and supervisors



... everything is automatically controlled by the SKIOLD FlexMix & FlexMix Pro Computers!

Using the PC controlled FlexMix you have a full real-time overview of your production shown on the individually adjusted flow diagram. By clicking on the monitor, operations such as changing raw materials and recipes, checking of production data, stock of raw materials etc. are easily done.

FlexMix Pro is the industrial version of the FlexMix controller with better user interface, possibility of traceability, and operation of a larger number of silos, mills, and weighing systems.

SKIOLD CRUSHERS



SKIOLD MAKES THE DIFFERENCE!



SKIOLD CRUSHERS FOR ALL LIVESTOCK SIZES

Large capacity range

Low power consumption

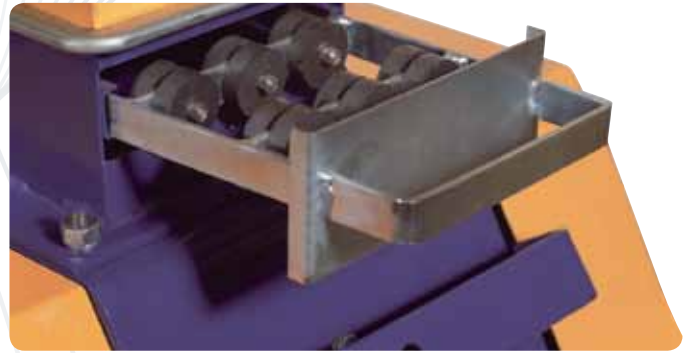
Drive on two or three rollers

Easy operation and adjustment

Efficient magnet separator at inlet

Crushing of all usual raw materials

Compact construction with optimal operation security



Crushers for all Purposes

SKIOLD KB160 & KB300



Drive on two or three Rollers

KB160 is available in two versions: one with two rollers and one with three rollers. The two roller version is meant for crushing of usual cereals like oats, barley and wheat. If crushing of peas, maize or beans is needed, the third roller is necessary for pre-crushing these raw materials before the final crushing procedure.

The KB300 crushers are as standard equipped with three rollers.

High Capacity / kW

The simple and thorough construction of the SKIOLD crushers secures a very high capacity/kW. The power consumption at crushing of grain is 50 - 70% lower than at milling.

Magnet separator

The crushers are as standard equipped with a special inlet and heavy magnet separator, placed in a drawer which is easy to remove for inspection and emptying.

Quality Rollers

The rollers in all SKIOLD crushers are made of cast iron, giving an optimal crushing of the raw materials.

The cast iron keeps the rough surface for a very long time, and the rollers are not worn smooth like rollers made of other very hard materials.

Crushers in Plants

SKIOLD crushers can be incorporated in the other modular SKIOLD plants with mixers, silos, transport augers, cleaners, etc.

SKIOLD DISC MILL



SKIOLD MAKES THE DIFFERENCE!



SKIOLD DISC MILL

Optimal feed structure for all animal groups

Exceptional durability on wearing parts

Low power consumption

Capacity up to 12 t/h

Quiet running



Technology & Advantages

New technology, new advantages

The SKIOLD disc mill is the result of several years of product development and testing. The object was to develop an all-round mill for grinding of grain and crops; and that with low power consumption, quiet running and minimum dust levels. At the same time the mill should allow automatic adjusting of the grinding degree during operation according to the required fineness and structure of the specific feed mixtures for different animal groups or species. Also it was the object to develop a compact mill that fits in easily, even in existing plants. The grinding takes place between two discs consisting of a number of segments produced in tungsten carbide. This is the same material as is used for producing cutting tools in the engineering industry. Thus, quality- and product-wise, the SKIOLD disc mill meets all the demands made by today's largest and most professional animal producers as well as commercial feed millers.

High capacity, low power consumption

The mill is available in three sizes: The SK2500 with a 5.5 kW or a 7.5 kW electric motor; the SK5000 with a 15, 22 or 30 kW electric motor and the SK10T with a 55 or 75 kW electric motor. When grinding wheat, the capacity varies from 1,000 to 12,000 kg/h, depending on mill size and grinding degree, giving a typical power consumption of only 5 kWh per ground tonne. The motor is

mounted directly on the running disc, securing the entire motor power to be used in the grinding process. The capacity varies according to the different raw materials and the required grinding degree.

Exceptional durability on wearing parts

The grinding takes place in two steps. First the raw materials are coarsely ground between two inlet rings before the final grinding between the grinding discs. The discs consist of a number of segments with the hardness of 1,700 HV, whereas the hardness of the hammers in a traditional mill is just 600 HV after hardening. When grinding normal, cleaned grain, the durability of one set of discs in the smallest mill will be up to 5,000 tonnes, 10,000 tonnes in the medium size mill and up to 20,000 tonnes in the largest model which considerably increases service intervals of the mill.

Low dust and noise level

The mill operates without air ventilation, which eliminates dust emission. Augers, elevators or other types of mechanical conveyors are used for conveying to and from the mill which of course SKIOLD is fully equipped to supply. The noise level of the mill is only 80 dB(A) which will be perceived by users as quiet running when compared to a traditional hammer mill having a noise level between 85 - 90 dB(A).





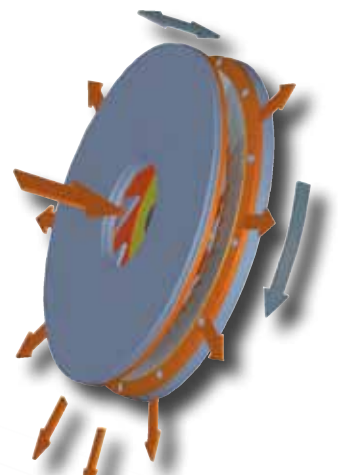
Feed Structure & Build-in

Feed structure

The ideal feed structure is not the same for all species of animals and groups within the same species just as the grinding process is different for different types of raw materials. Therefore it is important to be able to change the grinding degree during operation and between the different feed mixtures in order to get the optimal structure of the prepared feed. The distance between the two grinding discs determines the grinding degree and the disc mill is constructed with stepless change of the distance between the discs. The distance can be changed manually by means of a handle on the front of the disc mill or automatically via an actuator receiving settings from the control system of the plant.

Building-in and use

By virtue of its compact appearance the disc mill fits in easily in both new and existing plants. Typically, augers are used for conveying raw materials to the disc mill. Using frequency control for the augers, the optimal utilization of the mill capacity is secured. An auger or other conveyors can be mounted directly at the mill outlet for conveying the ground material to mixer or silo(s). If the raw materials contain many impurities, it is recommended that the raw materials are cleaned prior to grinding using a screen cleaner, as the impurities increase the wear of the mill. Again SKIOLD is fully equipped to supply effective screen cleaners which separate both sand and larger impurities from the raw materials. As standard the mill inlet is equipped with a strong pipe magnet. The disc mill is ideal for all common types of plants, e.g. as pre-grinder of raw materials and as grinding unit in continuous or batch based feed mills. The mill has been tested and found suitable for grinding of many different raw materials including pellets with diameters up to 12 mm.





FlexMix - Mill/Mix computer For All Your future Demands!

FlexMix is SKIOLD's answer to the demands of modern farm feed production to control of production.

It has been of great importance to construct a flexible and handy computer in order to make the daily operation easier. Extensions and new demands can easily be met, and a good survey of the production as well as easy access to necessary data for economical control. Optimal Control

FlexMix PC is the optimal tool for control of large and complex plants.

The system is based on a standard computer that via a connected PC with graphic software gives maximum view and is extremely handy.

The plant can be updated and operated via a modem which a. o. assures efficient service and correction of faults directly from the SKIOLD service department.

Mill Control in the Centre

The mill is the largest consumer of energy in the plant, and so it is important to control the mill in the best possible way, because of energy consumption as well as achievement of optimal structure in the feed.

A combination of FlexMix with the SKIOLD disc mill offers an optimal utilization of its resources.

FlexMix can be programmed to vary the milling degree of the various raw materials in the various mixtures so that the correct structure for the various animal groups is obtained. This guarantees the best feed utilization and health.

With the SKIOLD FlexMix the modern farmer can meet with the future demands of increased flexibility and optimal control of his feed production.